

In the Claims:

Sub
C1
Claim 1 (twice-amended). A cutting unit, comprising:

a pair of cylinders disposed opposite one another with a gap formed there-between for receiving a ribbon, said pair of cylinders including a first cutting cylinder having a periphery with a cutting knife disposed helically about said periphery and a second cylinder;

B1
one drive rotating said first cutting cylinder for cutting the ribbon and providing a signature cut from the ribbon with a smooth, straight edge;

a subframe having a pivot point, said subframe being pivotable about said pivot point, said subframe supporting said cylinders, and said subframe controlling a position of said cylinders in regard to the ribbon and therefore controlling a cutting length of the ribbon;

a further drive connected to said subframe for pivoting said subframe about said pivot point;

a control unit connected to and controlling said further drive and said one drive for controlling a rotational speed of said first cutting cylinder; and

B1 sub c1
a sensor connected to said control unit, said sensor providing control signals to said control unit for controlling operation of said cylinders.

B2 sub c1
Claim 5 (twice-amended). The cutting unit according to claim 1, wherein said one drive is a first drive, and including a second drive rotating and mounting said second cylinder, said first drive and said second drive are supported by said subframe.

sub c1
Claim 10 (twice-amended). A folder, comprising:

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a frame;

a subframe pivotably mounted in said frame about a pivot point;

one drive housed in said subframe;

a pair of cylinders supported by said subframe and disposed opposite one another with a gap formed there-between for receiving a ribbon, said pair of cylinders including a first cutting cylinder having a periphery with a cutting knife disposed helically about said periphery and a second cylinder, said first cutting cylinder driven by said one drive for

Sub C
cleanly cutting the ribbon and providing a signature cut from the ribbon with a smooth, straight edge;

said subframe controlling a position of said cylinders in regard to the ribbon and therefore controlling a cutting length of the ribbon;

B3
a further drive connected to said subframe for pivoting said subframe about said pivot point;

a control unit connected to and controlling said further drive and said one drive for controlling a rotational speed of said first cutting cylinder; and

a sensor connected to said control unit, said sensor providing control signals to said control unit for controlling operation of said cylinders.

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B4
Claim 11 (amended). The folder according to claim 10, wherein said one drive is a first drive and including a second drive rotating and mounting said second cylinder, said first drive and said second drive rotating said cylinders such that a component of travel of a point of contact between said cylinders in a direction of travel of the ribbon matches a speed of the ribbon for cutting the ribbon in a straight line.